

BEST AVAILABLE COPY

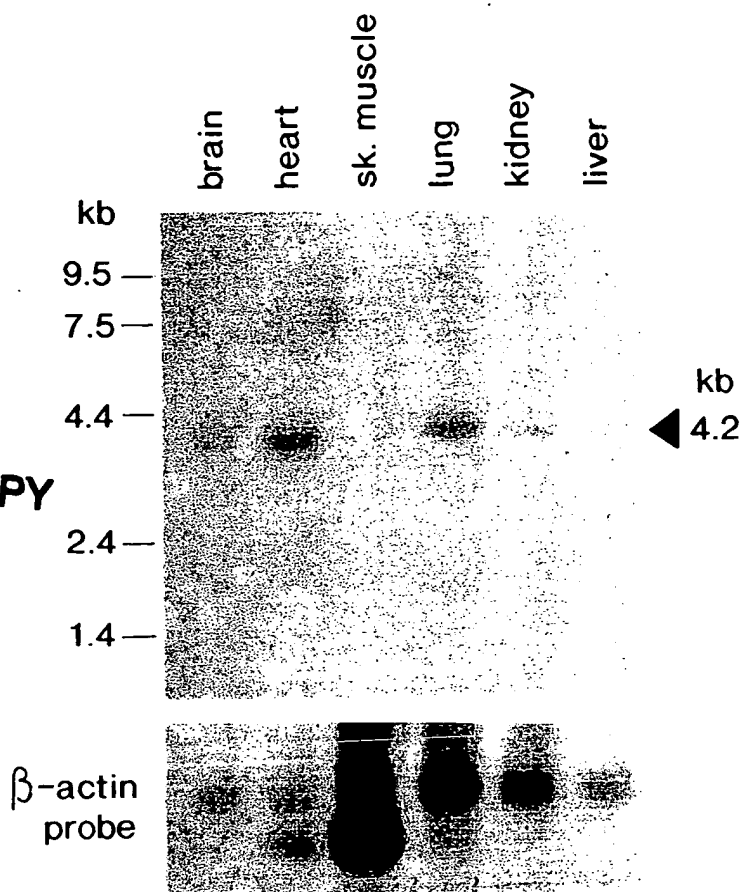


FIG. 11A

FIG. 11B

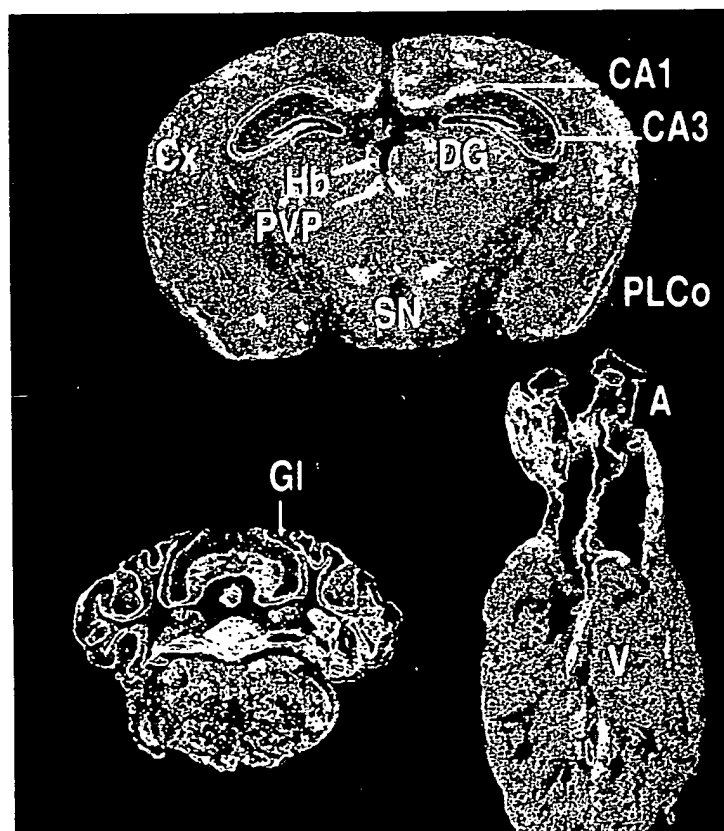


FIG. 11C

FIG. 11D

FOI280-404660

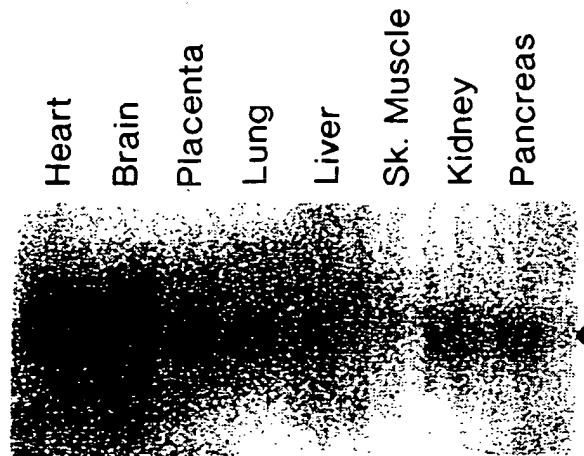


FIG. 1A

BEST AVAILABLE COPY

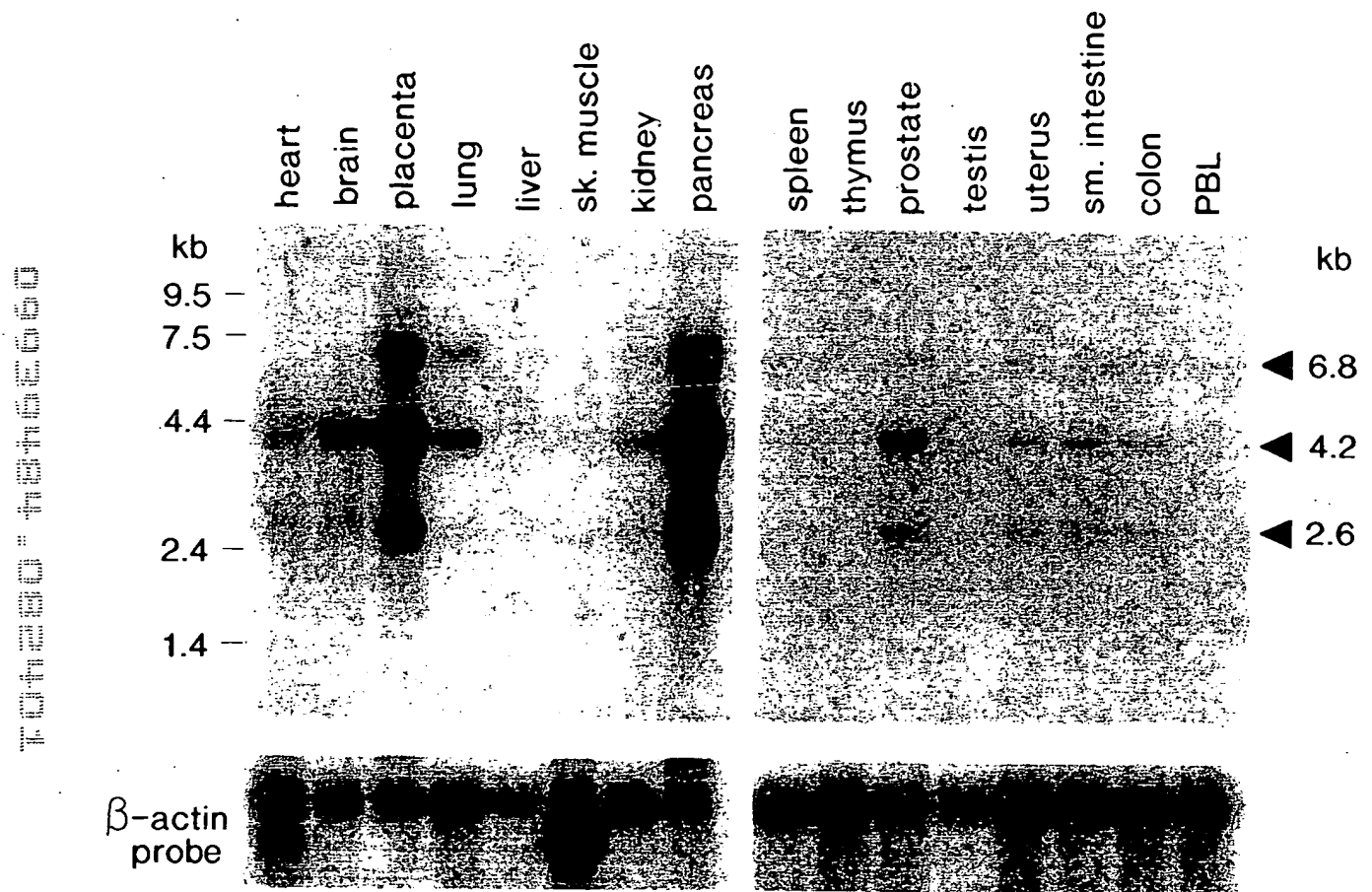


FIG. 10

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| | | | | | | | | | | | | | | | | | | | | |
|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|------|
| gggcaggaagacggcgctgcccgaggagc | | | | | | | | | | | | | | | | | | | | -153 |
| ggggcgggcgggcgcgcgggggagcgggcgggcgggcgggagccaggccggcgggggcgggggcgggcgggccag | | | | | | | | | | | | | | | | | | | | -77 |
| aagaggcgggcgggcgcgctccggccggtctgcggcggtggccttggctttggctttggcgggcgggcggtggagaag | | | | | | | | | | | | | | | | | | | | -1 |
| ATG | CTG | CAG | TCC | CTG | GCC | GGC | AGC | TCG | TGC | GTG | CGC | CTG | GTG | GAG | CGG | CAC | CGC | TCG | | 57 |
| M | L | Q | S | L | A | G | S | S | C | V | R | L | V | E | R | H | R | S | | 19 |
| GCC TGG TGC TTC GGC TTC CTG GTG CTG GGC TAC TTG CTC TAC CTG GTC TTC GGC GCA | | | | | | | | | | | | | | | | | | | | 114 |
| A | W | C | F | G | F | L | V | L | G | Y | L | L | Y | L | V | F | G | A | | 38 |
| GTG GTC TTC TCC TCG GTG GAG CTG CCC TAT GAG GAC CTG CTG CGC CAG GAG CTG CGC | | | | | | | | | | | | | | | | | | | | 171 |
| V | V | F | S | S | V | E | L | P | Y | E | D | L | L | R | Q | E | L | R | | 57 |
| AAG CTG AAG CGA CGC TTC TTG GAG GAG CAC GAG TGC CTG TCT GAG CAG CAG CTG GAG | | | | | | | | | | | | | | | | | | | | 228 |
| K | L | K | R | R | F | L | E | E | H | E | C | L | S | E | Q | Q | L | E | | 76 |
| CAG TTC CTG GGC CGG GTG CTG GAG GCC AGC AAC TAC GGC GTG TCG GTG CTC AGC AAC | | | | | | | | | | | | | | | | | | | | 285 |
| Q | F | L | G | R | V | L | E | A | S | N | Y | G | V | S | V | L | S | N | | 95 |
| GCC TCG GGC AAC TGG AAC TGG GAC TTC ACC TCC GCG CTC TTC TTC GCC AGC ACC GTG | | | | | | | | | | | | | | | | | | | | 342 |
| A | S | G | N | W | N | W | D | F | T | S | A | L | F | F | A | S | T | V | | 114 |
| CTC TCC ACC ACA GGT TAT GGC CAC ACC GTG CCC TTG TCA GAT GGA GGT AAG GCC TTC | | | | | | | | | | | | | | | | | | | | 399 |
| L | S | T | T | G | Y | G | H | T | V | P | L | S | D | G | G | K | A | F | | 133 |
| TGC ATC ATC TAC TCC GTC ATT GGC ATT CCC TTC ACC CTC CTG TTC CTG ACG GCT GTG | | | | | | | | | | | | | | | | | | | | 456 |
| C | I | I | Y | S | V | I | G | I | P | F | T | L | L | F | L | T | A | V | | 152 |
| GTC CAG CGC ATC ACC GTG CAC GTC ACC CGC AGG CCG GTC CTC TAC TTC CAC ATC CGC | | | | | | | | | | | | | | | | | | | | 513 |
| V | Q | R | I | T | V | H | V | T | R | R | P | V | L | Y | F | H | I | R | | 171 |
| TGG GGC TTC TCC AAG CAG GTG GTG GCC ATC GTC CAT GCC GTG CTC CTT GGG TTT GTG | | | | | | | | | | | | | | | | | | | | 570 |
| W | G | F | S | K | Q | V | V | A | I | V | H | A | V | L | L | G | F | V | | 190 |
| ACT GTG TCC TGC TTC TTC TTC ATC CCG GCC GCT GTC TTC TCA GTC CTG GAG GAT GAC | | | | | | | | | | | | | | | | | | | | 627 |
| T | V | S | C | F | F | F | I | P | A | A | V | F | S | V | L | E | D | D | | 209 |

FIG. 1B-1

| | |
|---|------|
| TGG AAC TTC CTG GAA TCC TTT TAT TTT TGT TTT ATT TCC CTG AGC ACC ATT GGC CTG | 684 |
| W N F L E S F Y F C F I S L S T I G L | 228 |
| GGG GAT TAT GTG CCT GGG GAA GGC TAC AAT CAA AAA TTC AGA GAG CTC TAT AAG ATT | 741 |
| G D Y V P G E G Y N Q K F R E L Y K I | 247 |
| GGG ATC ACG TGT TAC CTG CTA CTT GGC CTT ATT GCC ATG TTG GTA GTT CTG GAA ACC | 798 |
| G I T C Y L L L G L I A M L V V L E T | 266 |
| TTC TGT GAA CTC CAT GAG CTG AAA AAA TTC AGA AAA ATG TTC TAT GTG AAG AAG GAC | 855 |
| F C E L H E L K K F R K M F Y V K K D | 285 |
| AAG GAC GAG GAT CAG GTG CAC ATC ATA GAG CAT GAC CAA CTG TCC TTC TCC TCG ATC | 912 |
| K D E D Q V H I I E H D Q L S F S S I | 304 |
| ACA GAC CAG GCA GCT GGC ATG AAA GAG GAC CAG AAG CAA AAT GAG CCT TTT GTG GCC | 969 |
| T D Q A A G M K E D Q K Q N E P F V A | 323 |
| ACC CAG TCA TCT GCC TGC GTG GAT GGC CCT GCA AAC CAT TGA gcgtaggatttgttgcatt | 1030 |
| T Q S S A C V D G P A N H * | 337 |
| atgctagagcaccagggtcagggtgcaaggaagaggttaagtatgttcattttttatcagaatgcaaaagcgaaaa | 1106 |
| ttatgtcactttaagaaatagctactgtttgcaatgtcttattaaaaaacaacaaaaaagacacatggaacaaag | 1182 |
| aagctgtgaccccagcaggatgtctaataatgtgaggaaatgagatgtccacctaaaattcatatgtgacaaaatta | 1258 |
| tctcgaccttacataggaggagaataacttgaagcagtatgctgctgtggttagaagcagattttatacttttaact | 1334 |
| ggaaactttggggtttgcatttagatcatttagctgatggctaaatagcaaaatttatatttagaagcaaaaaaaa | 1410 |
| aaagcatagagatgtgtttataaatagggttatgtgtactggtttgcatgtaccacccaaaatgattatttttg | 1486 |
| gagaatctaagtcaaactcactatttataatgcataggtaaccattaactatgtacatataaagtataaatatgtt | 1562 |
| tatattctgtacatatggtttaggtcaccagatcctagtgtagtctgaaactaagactatagatattttgtttct | 1638 |
| tttgatttctctttataactaaagaatccagagttgctacaataaaataagggaataataaaaaaaaaaaaaa | 1712 |

FIG. 1B-2

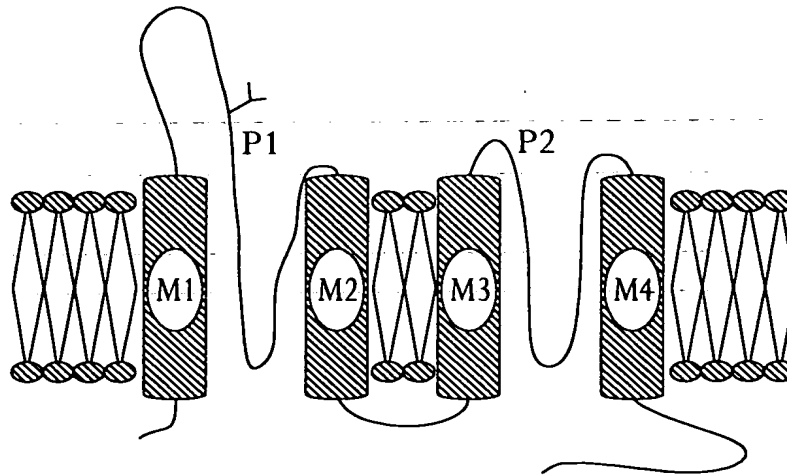
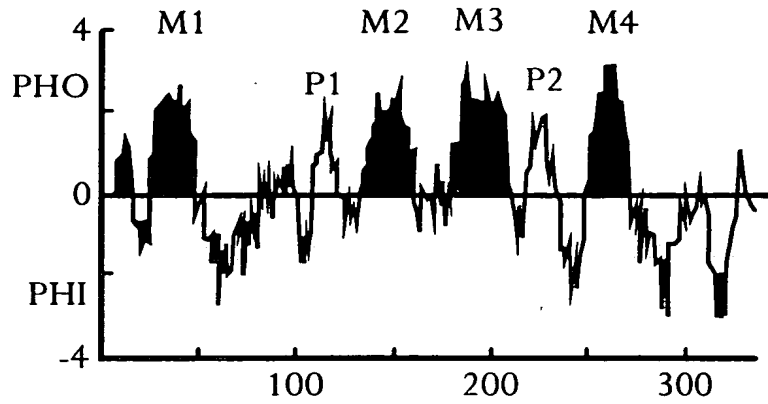


FIG. 1C

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| | 1 | 14 | 27 |
|-----------|-------------------------------|----|----|
| TWIK-1 P1 | FTSALFFASTVLSSTTCGYGHTVPLSDGG | | |
| TWIK-1 P2 | ELESFYFCFISLSTTGIGDYVPGEYN | | |
| TOK1 P2 | YFNCIYECFICLLTTCGYGDYAPRTGAG | | |
| TOK1 P1 | YGNALYECTVSLLTVGLGDILPKSVGA | | |
| Slo | YWTVCVYELIVTMTSTVGYGDVYCEIVLG | | |
| Shaker | IPDAFWWAVTMTTVGYGDMTPVGFWS | | |
| Shab | IPEAFWWAGITMTTVGYGDI CPTTALG | | |
| Shal | IPAAFWYTIIVTMTTLGYGDMVPETTAG | | |
| Shaw | IPLGLWWALVTMTTVGYGDMARKTYIG | | |
| KAT1 | YVTALYWSITTLTTLTGYGDFHAENPRE | | |
| AKT1 | YVTSMYWSITTLTTLVGYGDIHPVNTKE | | |
| eag | YVTALYETMTTCMTSVGEGNVAAETDNE | | |
| ROMK1 | MTSAFLFSLETQVTLGYGFRFVTEQCA | | |
| IRK1 | FTAAFLFSIETQTTLGYGFRFVTEQCA | | |
| GIRK1 | EPSAFLFFIETEATTGYGYRYITDKCP | | |

FIG. 2A

FIG. 2B

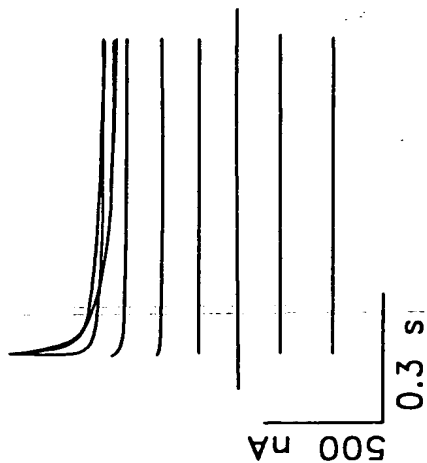


FIG. 3A

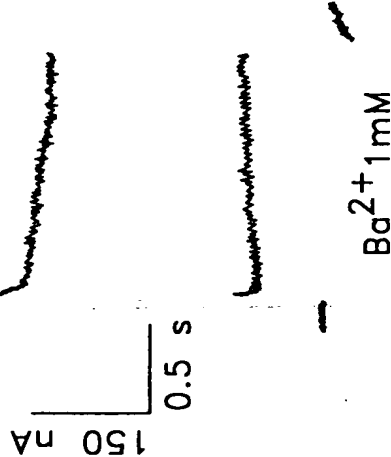


FIG. 3D

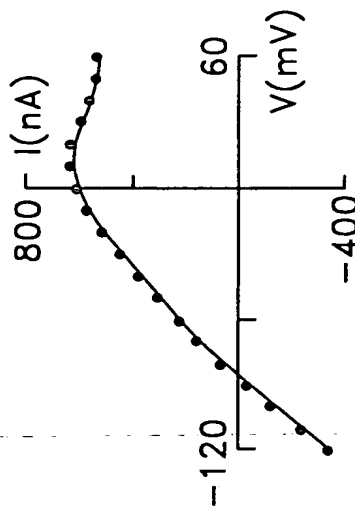


FIG. 3B

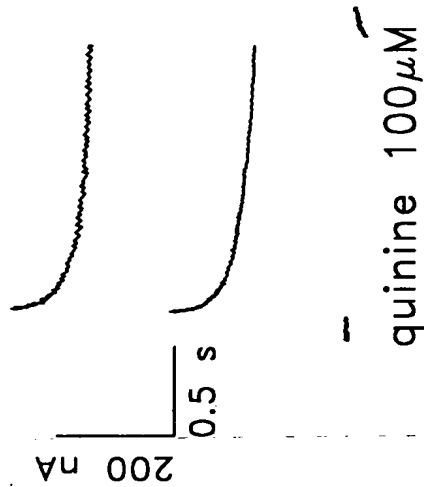


FIG. 3E

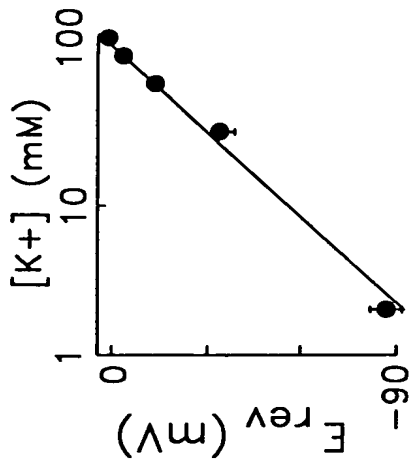


FIG. 3C

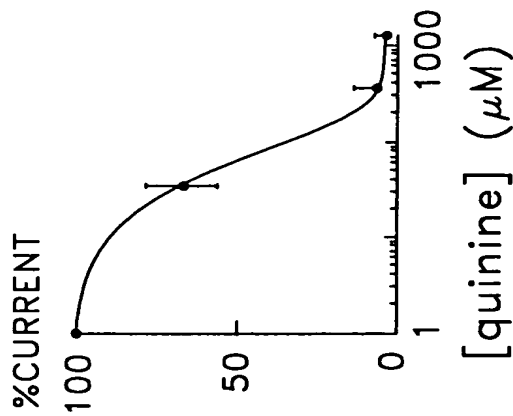


FIG. 3F

FIG. 4A

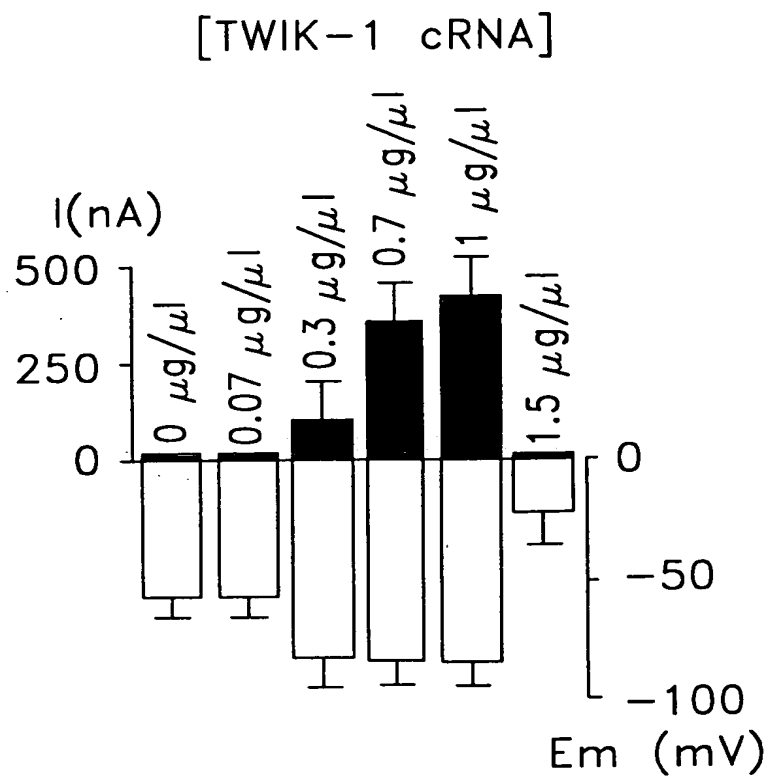


FIG. 4B

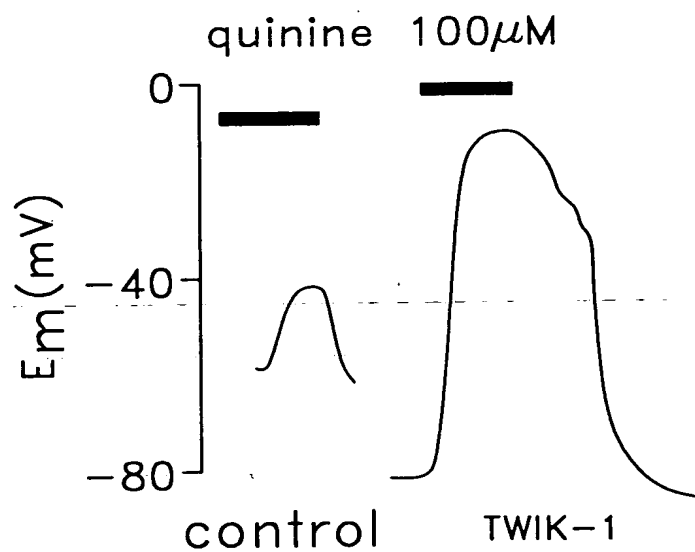
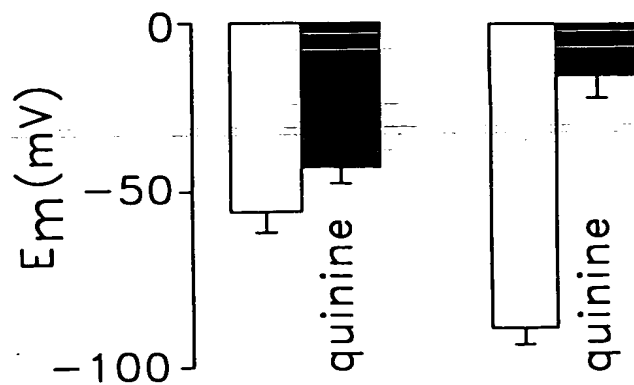


FIG. 4C



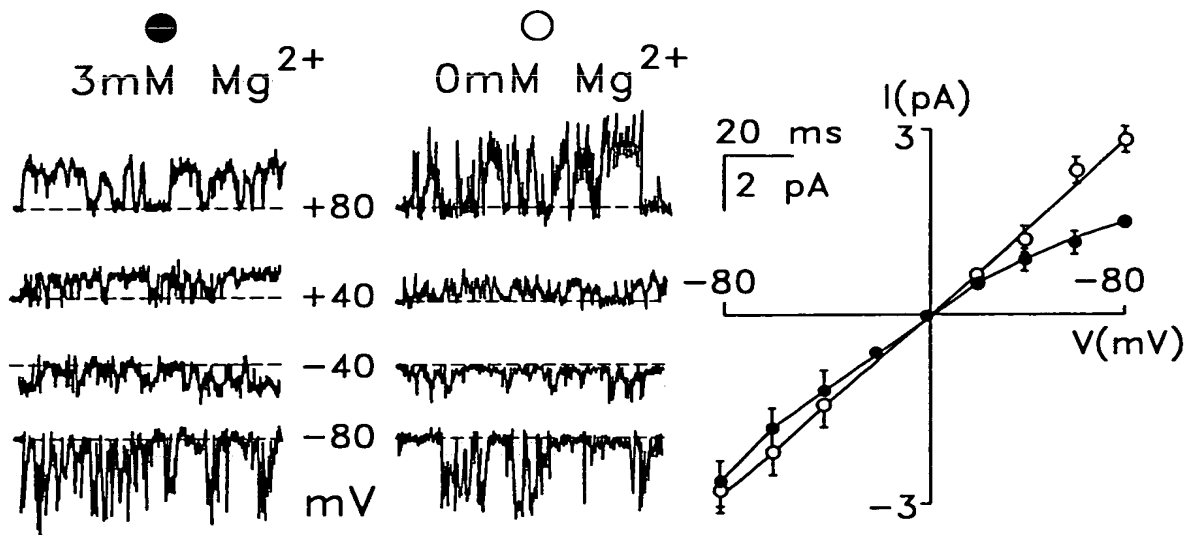


FIG. 5A

FIG. 5B

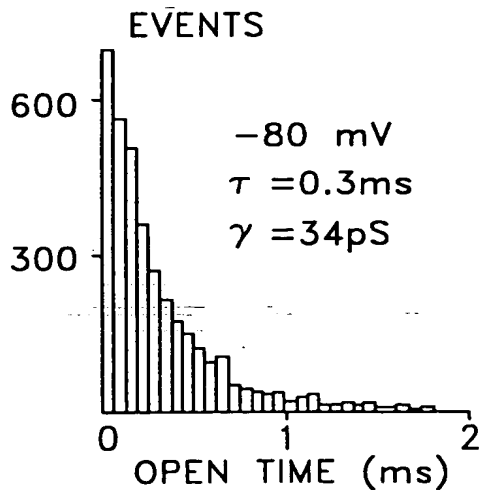
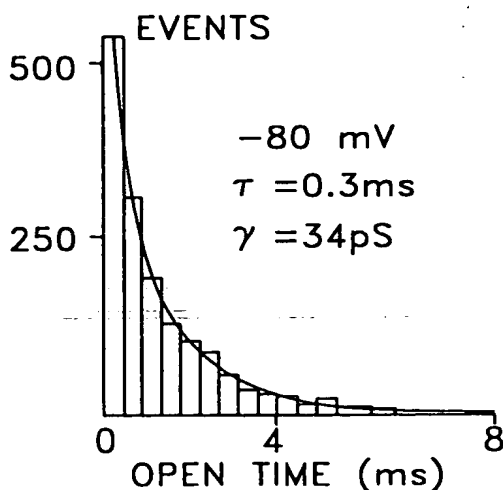
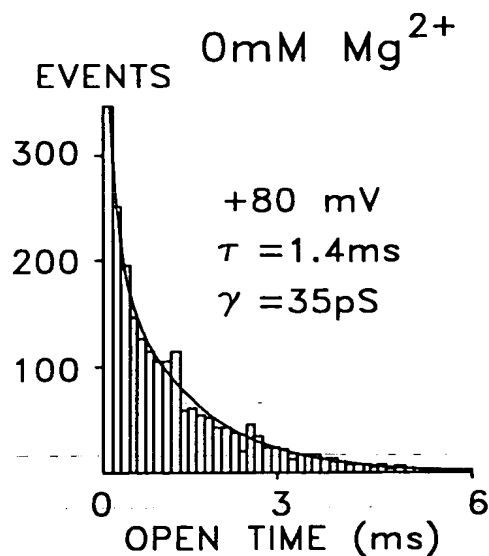
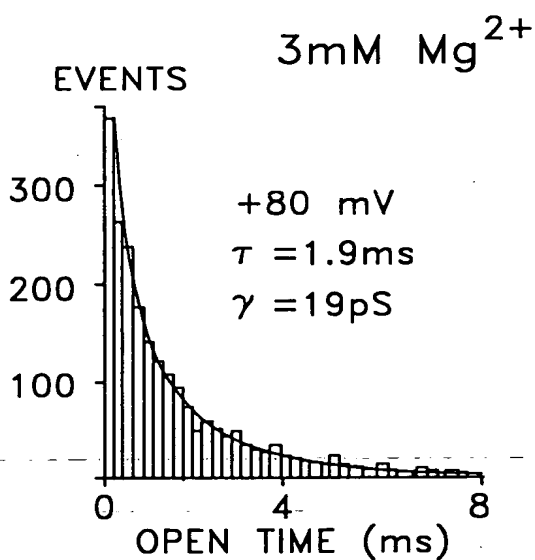


FIG. 5C

FIG. 5D

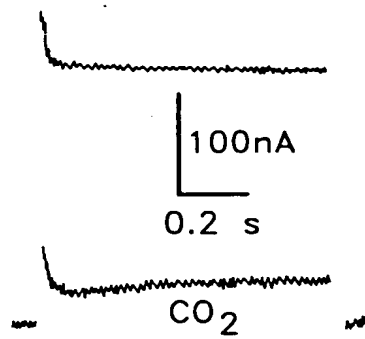


FIG. 6A

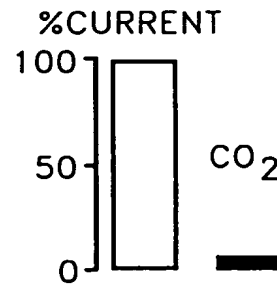


FIG. 6B

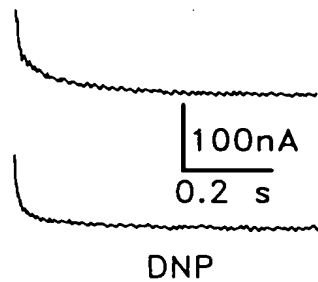


FIG. 6C

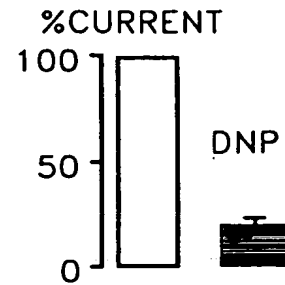


FIG. 6D

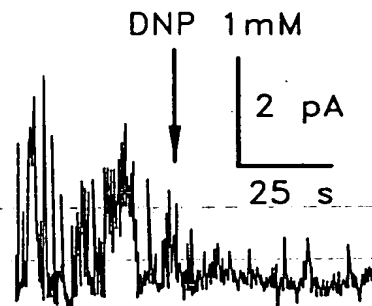


FIG. 6E

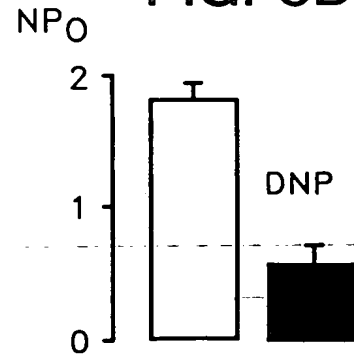


FIG. 6F

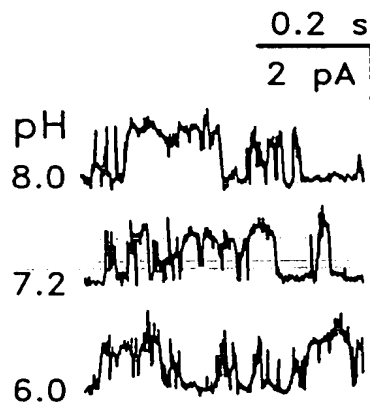


FIG. 6G

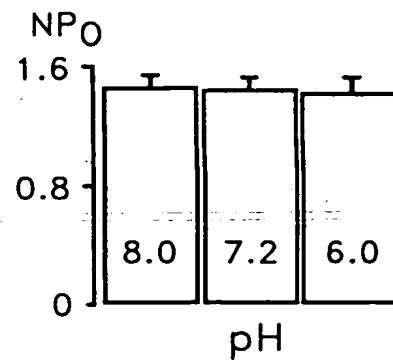


FIG. 6H

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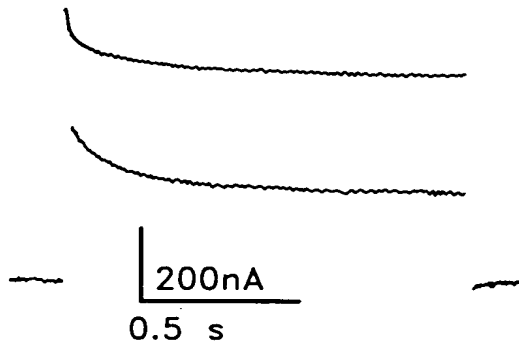


FIG. 7A

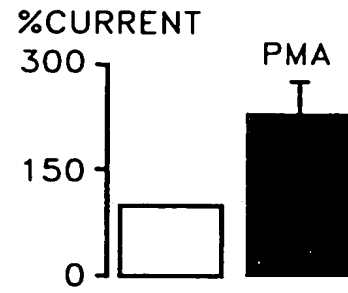


FIG. 7B

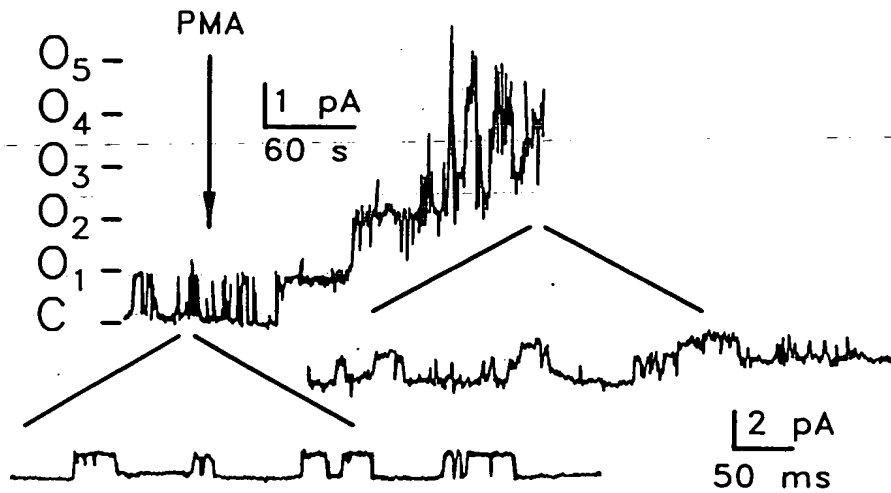


FIG. 7C

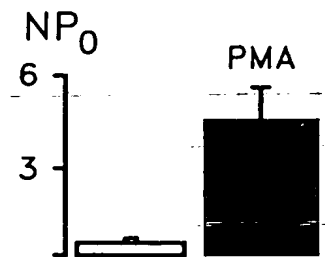


FIG. 7D

tgccctgcgaggatagcgggcagcgagccatgccccaggccgcctccg -77
 gggcagcagcagcggcgccggggccgatgcgcgggccggggcgccggggggccggcgggccggggcggggacg -1

ATG AAG CGG CAG AAC GTG CGC ACG CTG GCG CTC ATC GTG TGC ACC TTC ACC TAC CTG 57
 M K R Q N V R T L A L I V C T F T Y L 19
 E N V R T L A L I V C T F T Y L

CTG GTG GGC GCC GCG GTC TTC GAC GCG CTG GAG TCG GAG CCC GAG CTG ATC GAG CGG 114
 L V G A A V F D A L E S E P E L I E R 38
 L V G A A V F D A L E S E P E M I E R

CAG CGG CTG GAG CTG CGG CAG CAG GAG CTG CGG GCG CGC TAC AAC CTC AGC CAG GGC 171
 Q R L E L R Q Q E L R A R Y N L S Q G 57
 Q R L E L R Q L E L R A R Y N L S E G
 *

GGC TAC GAG GAG CTG GAG CGC GTC GTG CTG CGC CTC AAG CCG CAC AAG GCC GGC GTG 228
 G Y E E L E R V V L R L K P H K A G V 76
 G Y E E L E R V V L R L K P H K A G V

CAG TGG CGC TTC GCC GGC TCC TTC TAC TTC GCC ATC ACC GTC ATC ACC ACC ATC GGC 285
 Q W R F A G S F Y F A I T V I T T I G 95
 Q W R F A G S F Y F A I T V I T T I G

TAC GGG CAC GCG GCA CCC AGC ACG GAT GGC GGC AAG GTG TTC TGC ATG TTC TAC GCG 342
 Y G H A A P S T D G G K V F C M F Y A 114
 Y G H A A P S T D G G K V F C M F Y A

CTG CTG GGC ATC CCG CTC ACG CTC GTC ATG TTC CAG AGC CTG GGC GAG CGC ATC AAC 399
 L L G I P L T L V M F Q S L G E R I N 133
 L L G I P L T L I M F Q S L G E R I N

ACC TTG GTG AGG TAC CTG CTG CAC CGC GCC AAG AAG GGG CTG GGC ATG CGG CGC GCC 456
 T L V R Y L L H R A K K G L G M R R A 152
 T E V R Y L L H R A K B G L G M R H A

GAC GTG TCC ATG GCC AAC ATG GTG CTC ATC GGC TTC TTC TCG TGC ATC AGC ACG CTG -513
 D V S M A N M V L I G F F S C I S T L 171
 E V S M A N M V L I G F V S C I S T L

TGC ATC GGC GCC GCC TTC TCC CAC TAC GAG CAC TGG ACC TTC TTC CAG GCC TAC 570
 C I G A A A F S H Y E H W T F F Q A Y 190
 C I G A A A F S Y Y E B W T F F Q A Y

TAC TAC TGC TTC ATC ACC CTC ACC ACC ATC GGC TTC GGC GAC TAC GTG GCG CTG CAG 627
 Y Y C F I T L T T I G F G D Y V A L Q 209
 Y Y C F I T L T T I G F G D Y V A L Q

AAG GAC CAG GCC CTG CAG ACG CAG CCG CAG TAC GTG GCC TTC AGC TTC GTC TAC ATC 684
 K D Q A L Q T Q P Q Y V A F S F V Y I 228
 K D Q A L Q T Q P Q Y V A F S F V Y I

CTT ACG GGC CTC ACG GTC ATC GGC GCC TTC CTC AAC CTC GTG GTG CTG CGC TTC ATG 741
 L T G L T V I G A F L N L V V L R F M 247
 L T G L T V I G A F L N L V V L R F M

FIG. 8A

| | | | | | | | | | | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----------|-----|-----|-----|-----|-----|-----|-----|-----|------------------|-----|-----|-----|------|
| ACC | ATG | AAC | GCC | GAG | GAC | GAG | AAG | CGC | GAC | GCC | GAG | CAC | CGC | GCG | CTG | CTC | ACG | CGC | 798 |
| T | M | N | A | E | D | E | K | R | D | A | E | H | R | A | L | L | T | R | 266 |
| T | M | N | A | E | D | E | K | R | D | A | E | H | R | A | L | L | T | H | |
| AAC | GGG | CAG | GCG | GGC | GGC | GGC | GGA | GGG | GGT | GGC | AGC | GCG | CAC | ACT | ACG | GAC | ACC | GCC | 855 |
| N | G | Q | A | G | G | G | G | G | G | G | S | A | H | T | T | D | T | A | 285 |
| N | G | Q | A | V | G | L | G | G | L | S | C | L | S | G | S | L | G | D | |
| TCA | TCC | ACG | GCG | GCA | GCG | GGC | GGC | GGC | GGC | TTC | CGC | AAC | GTC | TAC | GCG | GAG | GTG | CTG | 912 |
| S | S | T | A | A | A | G | G | G | G | F | R | N | V | Y | A | E | V | L | 304 |
| VRPRDPV | TC | AA | A | A | G | GVGVGVGGS | G | F | R | N | V | Y | A | E | V | L | | | |
| CAC | TTC | CAG | TCC | ATG | TGC | TCG | TGC | CTG | TGG | TAC | AAG | AGC | CGC | GAG | AAG | CTG | CAG | TAC | 969 |
| H | F | Q | S | M | C | S | C | L | W | Y | K | S | R | E | K | L | Q | Y | 323 |
| H | F | Q | S | M | C | S | C | L | W | Y | K | S | R | E | K | L | Q | Y | |
| TCC | ATC | CCC | ATG | ATC | ATC | CCG | CGG | GAC | CTC | TCC | ACG | TCC | GAC | ACG | TGC | GTG | GAG | CAG | 1026 |
| S | I | P | M | I | I | P | R | D | L | S | T | S | D | T | C | V | E | Q | 342 |
| S | I | P | M | I | I | P | R | D | L | S | T | S | D | T | C | V | E | H | |
| AGC | CAC | TCG | TCG | CCG | GGA | GGG | GGC | GGC | CGC | TAC | AGC | GAC | ACG | CCC | TCG | CGA | CGC | TGC | 1083 |
| S | H | S | S | P | G | G | G | G | R | Y | S | D | T | P | S | R | R | C | 361 |
| S | H | S | S | P | G | G | G | G | R | Y | S | D | T | P | S | H | P | C | |
| CTG | TGC | AGC | GGG | GCG | CCA | CGC | TCC | GCC | ATC | AGC | TCG | GTG | TCC | ACG | GGT | CTG | CAC | AGC | 1140 |
| L | C | S | G | A | P | R | S | A | I | S | S | V | S | T | G | L | H | S | 380 |
| L | C | S | G | T | Q | R | S | A | I | S | S | V | S | T | G | L | H | S | |
| CTG | TCC | ACC | TTC | CGC | GGC | CTC | ATG | AAG | CGC | AGG | AGC | TCC | GTG | TGA | ctgccccgaggggacc | | | | 1200 |
| L | S | T | F | R | G | L | M | K | R | R | S | S | V | * | | | | | 395 |
| L | A | A | F | R | G | L | M | K | R | R | S | S | V | | | | | | |
| tggagcacctgggggcgcgggcggggggacccctgctgggaggccaggagactgcccctgctgccttctgcccagtg | | | | | | | | | | | | | | | | | | | 1276 |
| ggaccccgacacacatccctcaccactctccccagcagcccccatctccgactgtgcctgcttgaccagccggca | | | | | | | | | | | | | | | | | | | 1352 |
| ggaggccggggtctgaggacccctggggcccccatcgaggccctgcaaattccgagaaatgtgaaacttggtgggg | | | | | | | | | | | | | | | | | | | 1428 |
| tcaggggaggaagggcagaagctgggagcctcccttccctttgaaaatctaagaagctcccagtcctcagagaccct | | | | | | | | | | | | | | | | | | | 1504 |
| gctggtaccacacccaccccttcggaggggacttcatgttccgtgtacgtttgcatctctattttataacctctgtcct | | | | | | | | | | | | | | | | | | | 1580 |
| gctaggtctccaccttcccttggttccaaaagccagggtgtctatgtccaagtcacccctactcagccccactcc | | | | | | | | | | | | | | | | | | | 1656 |
| ccttctctcatccccagctgtgtctcccaacctcccttcgtgtgttttgcattggtcttgaggttatggagaaagt | | | | | | | | | | | | | | | | | | | 1732 |
| gaaacccagcagtccttaagctggtccccagaaagcaggacagaaagaaggaggggacaggcaggcagcaggaggg | | | | | | | | | | | | | | | | | | | 1808 |
| gcgagctgggaggcaggaggcagcgccctgtcagctctgcagaatggtcgactggaggttcaagctaactggcctc | | | | | | | | | | | | | | | | | | | 1884 |
| cagccacattctcatagcaggtaggacttcagccttccagacactgcccttagaatctggaacagaagacttcaga | | | | | | | | | | | | | | | | | | | 1960 |
| ctcaccataattgctgataattacccactcttaaatttgcagagtgtttttagcctctgaaaactctatgctggc | | | | | | | | | | | | | | | | | | | 2036 |
| cactgattcctttgagctcacaaaacctacttaggtcatcagggcaggagttctcactcccattttacagatga | | | | | | | | | | | | | | | | | | | 2112 |
| gaatactgaggcctggacaggtgaagtgcaggagagcaaaaggcaagggtgggggctgggtgcagtggtcac | | | | | | | | | | | | | | | | | | | 2188 |
| acctgtattcccaaccttttggaggctgagggtggaggattgcttgagcccaggaattcgagaccagcctagggtg | | | | | | | | | | | | | | | | | | | 2264 |
| acatagtgcagaccccatctctacaaaaataaaaaattaaccagggtgtggtggcacgtgcctgggagtgccagcga | | | | | | | | | | | | | | | | | | | 2340 |
| cttgggaggctgagggtgggaggattgtttgagcctgggagggtcgaggctgtagtgagccctgattgcaccactgta | | | | | | | | | | | | | | | | | | | 2416 |
| ctccagcctgggtgcagggcaagaccctgtctcaaaaaaaaaaaaaaaaaa | | | | | | | | | | | | | | | | | | | 2465 |

FIG. 8B

FIG. 9A

FIG. 9B

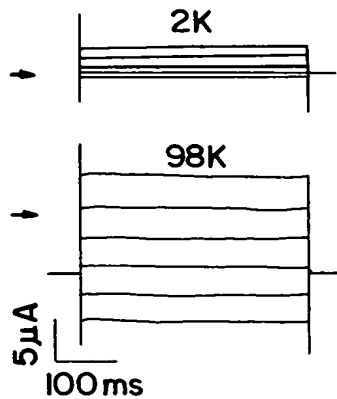


FIG. 12A

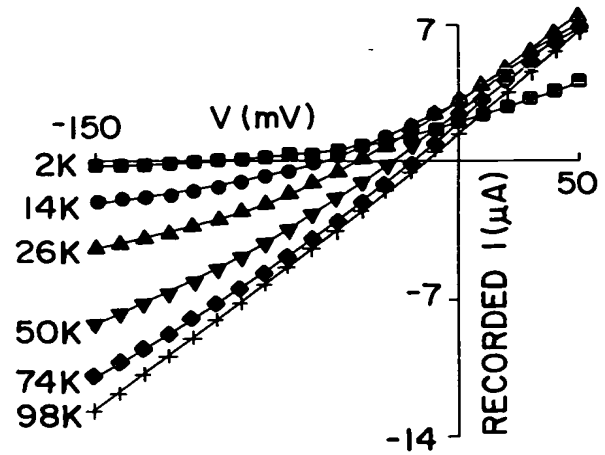


FIG. 12B

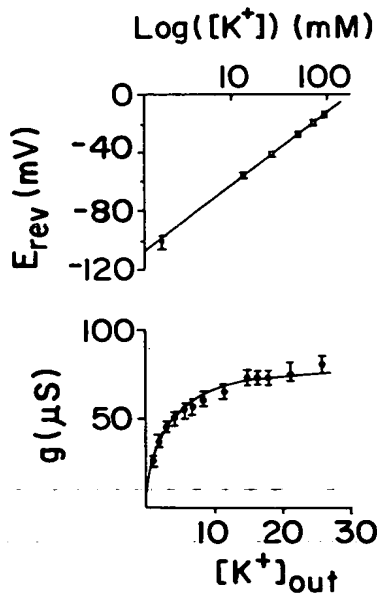


FIG. 12C

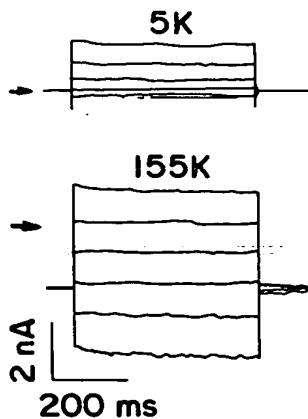


FIG. 12E

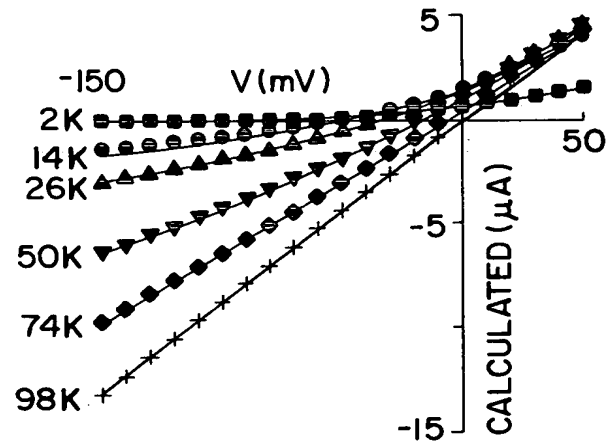


FIG. 12D

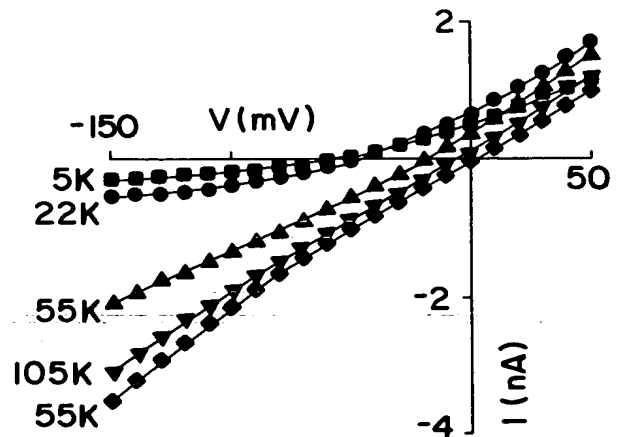


FIG. 12F

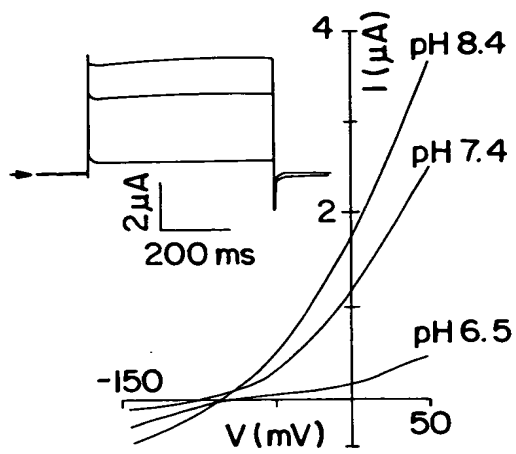


FIG. 13A

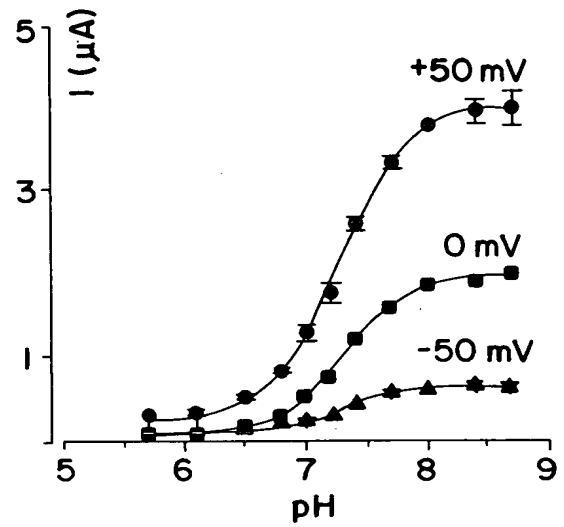


FIG. 13B

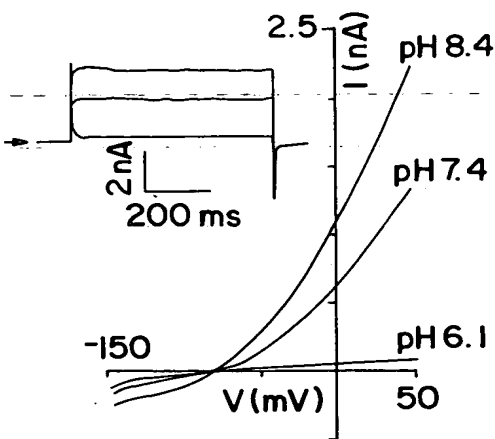


FIG. 13C

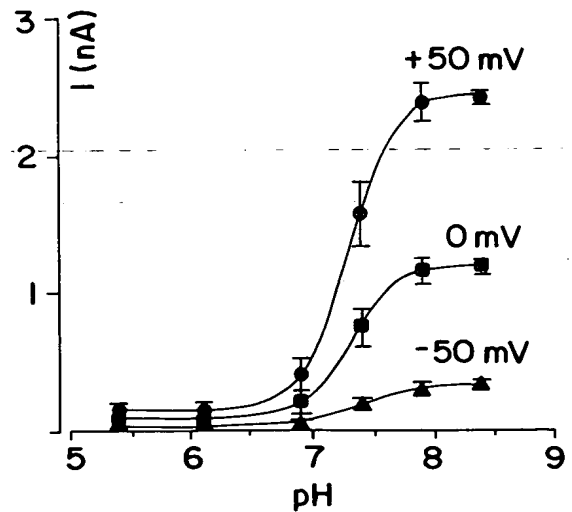
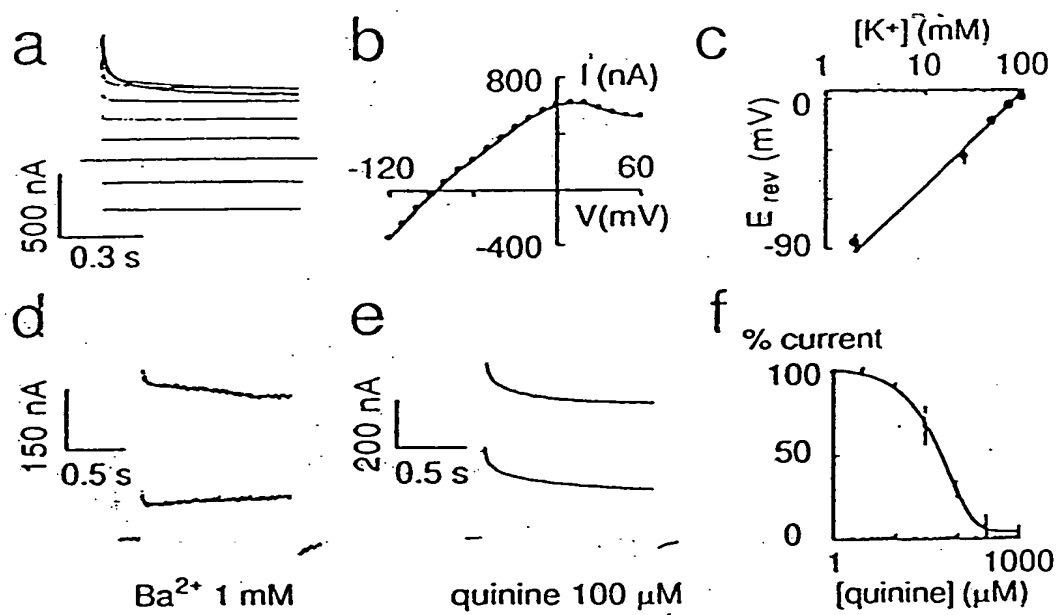


FIG. 13D

Fig. 2

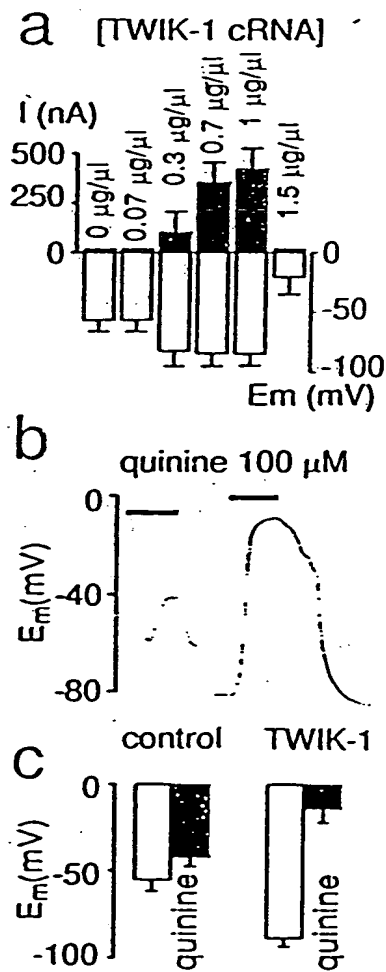
| | | | | |
|---|-----------|------------------------------|-----|----|
| | | 1 | 14 | 27 |
| a | Twik-1 P1 | RTSALEFFASTVLSTTGYGHTVPLSDGG | | |
| | Twik-1 P2 | RLSEFVFCFSLSTGLGDIYVPEGEGYN | | |
| | TOKI P2 | VFNCIYFCFICLLTIGYGDYAPRTGAG | | |
| | TOKI P1 | YGNALYFCTVSLLTVGLGDIPKSVGA | | |
| | Sho | YWTGVYELIVTSTVGYGDMCETVLG | | |
| | Shaker | IPDAFWMALVTMTTVGYGDMTEVGFWG | | |
| | Shab | IPEAFWMAGITMTTVGYGDMCPTTALG | | |
| | Shal | IPAAFWMIVTMTTVGYGDMVPEPTAG | | |
| | Shaw | IPLLEWMALVTMTTVGYGDMAPKTKIG | | |
| | KATI | VVTALYVSTITLTTTGYGDFHAENPRE | | |
| | AKTI | VVTSMYVSTITLTTVGYGDMHEVNTKE | | |
| | cas | VVTALYVSTITLTTVGYGDMMAABTDNE | | |
| | ROMKI | MTSAFLFSTETQVTIGYGFRRVTEQCA | | |
| | IRKI | RTAFLFSTETQVTIGYGFRCVTDECPC | | |
| | GIRKI | RTSAFLFSTETQVTIGYGYRVTITDKCP | | |
| b | Twik-1 | 1 | 27 | |
| | (17c8) | 1 | 27 | |
| | M110-2 | 1 | 27 | |
| | Twik-1 | 31 | 47 | |
| | (17c8) | 31 | 47 | |
| | M110-2 | 31 | 47 | |
| | Twik-1 | 71 | 96 | |
| | (17c8) | 71 | 96 | |
| | M110-2 | 71 | 96 | |
| | Twik-1 | 110 | 142 | |
| | (17c8) | 110 | 142 | |
| | M110-2 | 110 | 142 | |
| | Twik-1 | 157 | 189 | |
| | (17c8) | 157 | 189 | |
| | M110-2 | 157 | 189 | |
| | Twik-1 | 197 | 213 | |
| | (17c8) | 197 | 213 | |
| | M110-2 | 197 | 213 | |
| | Twik-1 | 239 | 253 | |
| | (17c8) | 239 | 253 | |
| | M110-2 | 239 | 253 | |
| | Twik-1 | 278 | 294 | |
| | (17c8) | 278 | 294 | |
| | M110-2 | 278 | 294 | |
| | Twik-1 | 315 | 338 | |
| | (17c8) | 315 | 338 | |
| | M110-2 | 315 | 338 | |

Fig. 3



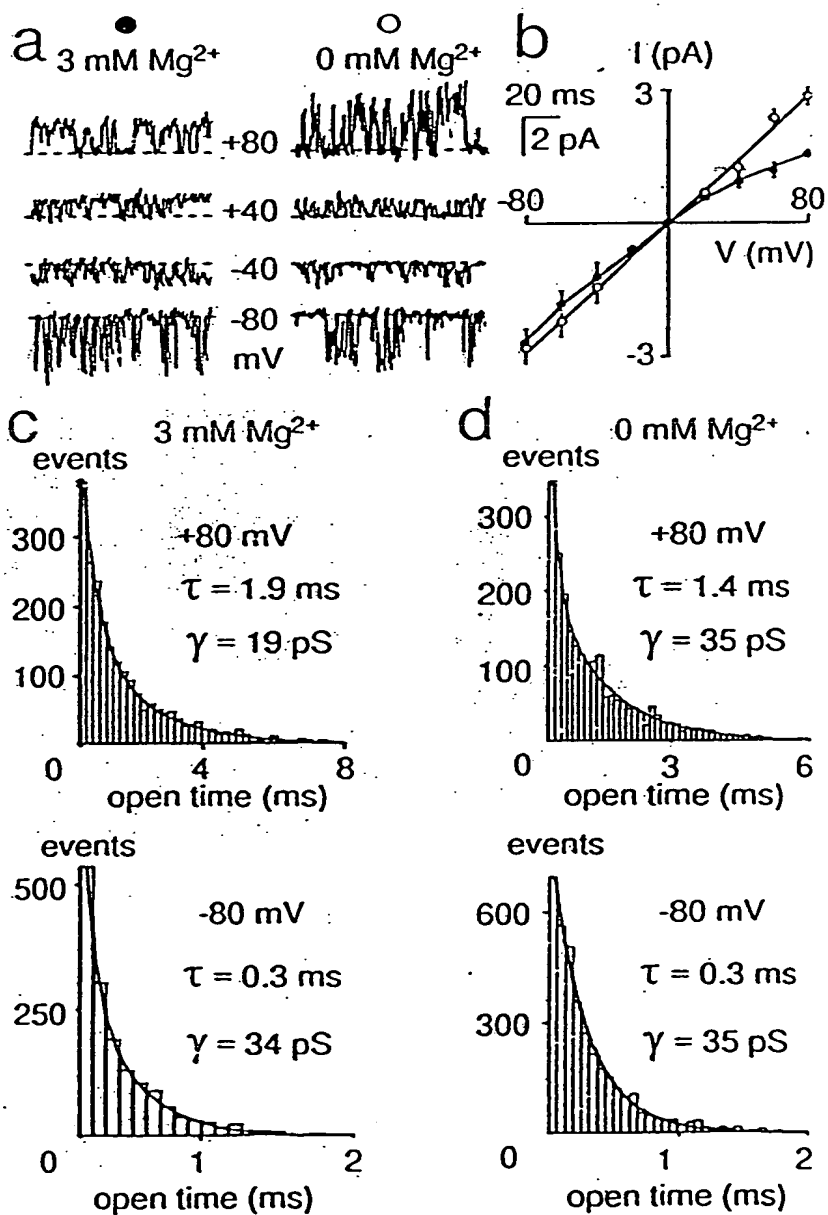
4/13

Fig. 4



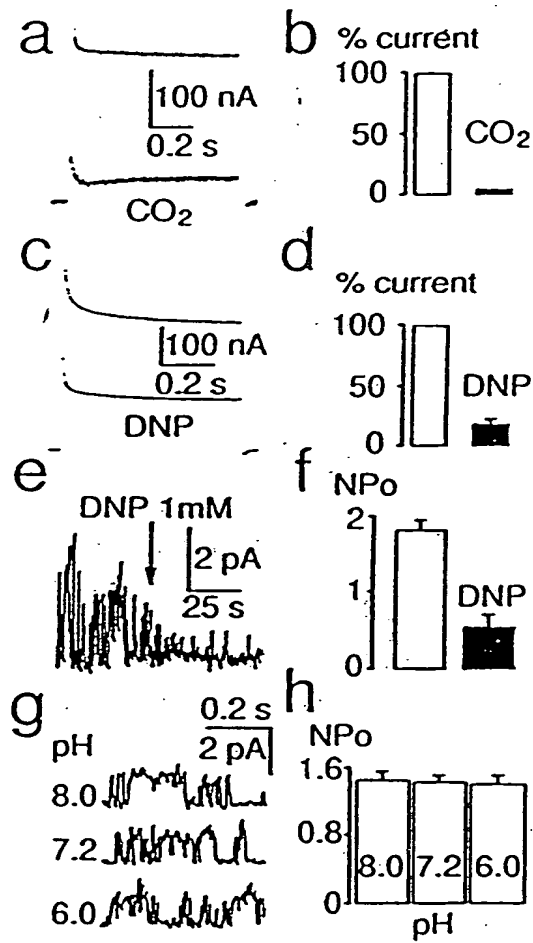
5/13

Fig. 5



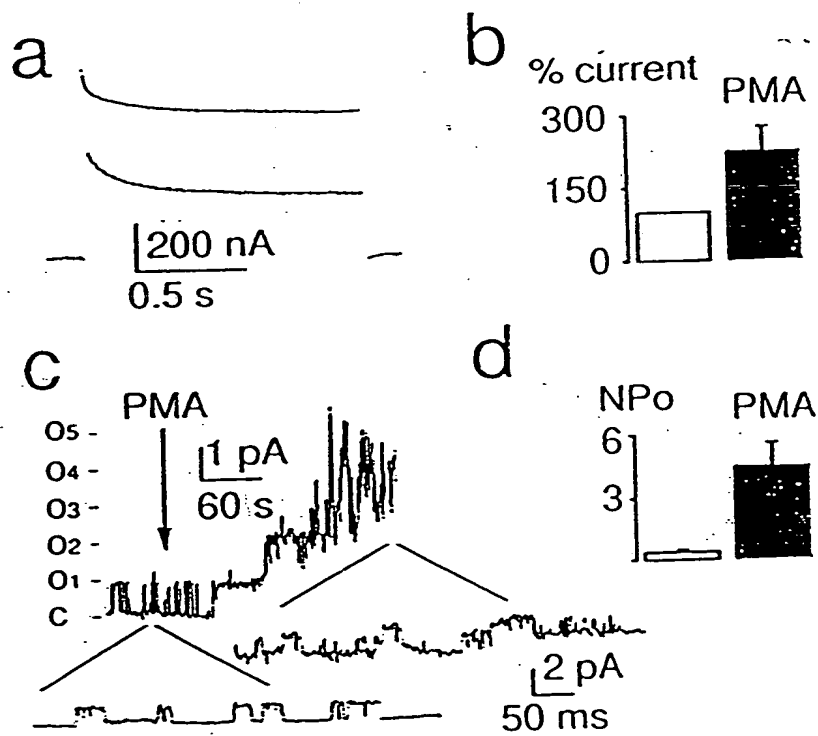
6/13

Fig. 6



7/13

Fig. 7



[illegible]

[illegible]

A

1 --- M QSLAGSSCOVR ----- LVERHRS ---
1 MAAPDLDPKSAACNSKPRLSFSSKPTVLASRVESDSA
1 --- MKR --- Q NVR -----

MI

TWIK-1 20 --- A CFCALVGLVLYLVEGA VVSSVLELPYEDLL
TREK-1 39 INVMKKTSTSTFLLVLYLIGAAVEALPQRBISQ
TASK 8 --- RUAIVGTFYLLVGAAVEALESEPELIE

TWIK-1 53 ROELRKLRRLLEEHECLSEOOLEQFLGRVLPA SN YGV
TREK-1 77 RTTIVIOKQTEIACHACVNSTELLELIQQIVAAINAGI
TASK 38 RORLELRQOELRARNYNSQGG-YEELERVVRLKPKHKA

PI

TWIK-1 91 SVLSNAGS-G-NWWDETSALFFASTVLSTIGYCHTVPLS
TREK-1 115 IPLCNSNNCVSHNDLCSSFFFACTVITITIGGNLSPRT
TASK 75 G-----VQ-MREAGSFYFAITVITITIGYGHAAEST

M2

TWIK-1 128 DGGNACFIIVSVICIFETLLSTAVVORI TVHVTR--R
TREK-1 153 EGGNISCITVALLGIPLEGLACVGDOLCTIFGKGIA
TASK 104 DGGNVECFMFAALLGIPLEGLVMPGSLGERINTLVRY---

M3

TWIK-1 164 PLYLFHRYGFSKQVAVVHAVVIGFGLNCSCEFLPAA
TREK-1 191 KVEDTFKNNVSOtkRIIETIIFMLECCVIEVALPAE
TASK 139 LHRACKGLCMRRADYSMANVLLIGFESCIISTLCZAA

P2

TWIK-1 202 VESVLEDDWNLSESYFCFISLSTIGIGDYVGE-GYN
TREK-1 229 ISKHIEG-SALDEIYEVVLTITIGFGDYVAG--GSD
TASK 177 AFSHYEH-WTFPCA VVYCFITLTITIGFGDYVALQKDOA

M4

TWIK-1 239 QKFREINRGITLYLLGLERLRLVLEEFELHELKKF
TREK-1 264 IEYLDEYNPVVERILVGLAKRAVL EMIQDWRVSK
TASK 214 LQTOPOVVAESENILGLTLIGAE NLVVRFMTHNA

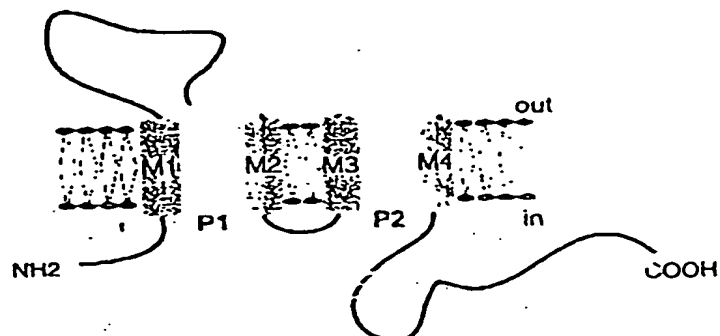
TWIK-1 277 RKMPFYKKDKD-----
TREK-1 302 KTKEPVGEFR-----
TASK 252 EDEKRDAEHRALLTRNGQAGGGGGGSAHTTDTASSTA

TWIK-1 288 -----EDQVHII EHDQLSE SSITDQAAGMK--
TREK-1 312 -----AHAAEWTANVTABE KETRRLSVET--
TASK 290 AAGGGGFRNVYAEVLH FQSMCSCLWYKSRERKQYSTPM

TWIK-1 313 --- EOKKONEPVATQSSACVDGPANH-----
TREK-1 337 --- YOKFORATSVKRLSAELAGNENQELTPCMRTGL-
TASK 328 IIPROLSTSDC VEQSHSSPGGGGRYSDTPSRRCCLSG

TWIK-1 337 -----
TREK-1 371 -----
TASK 366 APRSAISSVSTGLHSLSTFRGLMKRRSSV

B



10/13

Fig. 10

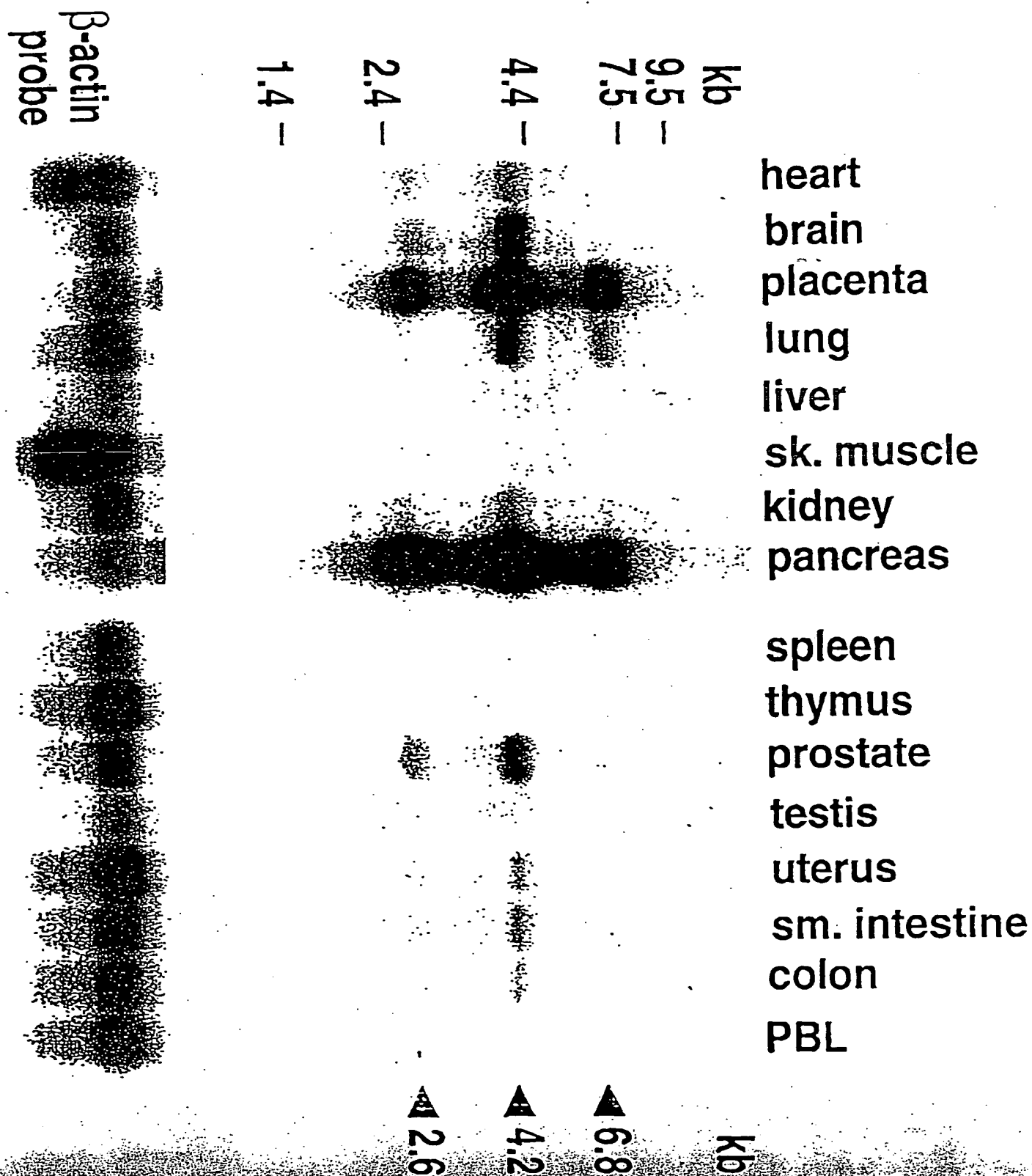


Fig. 11

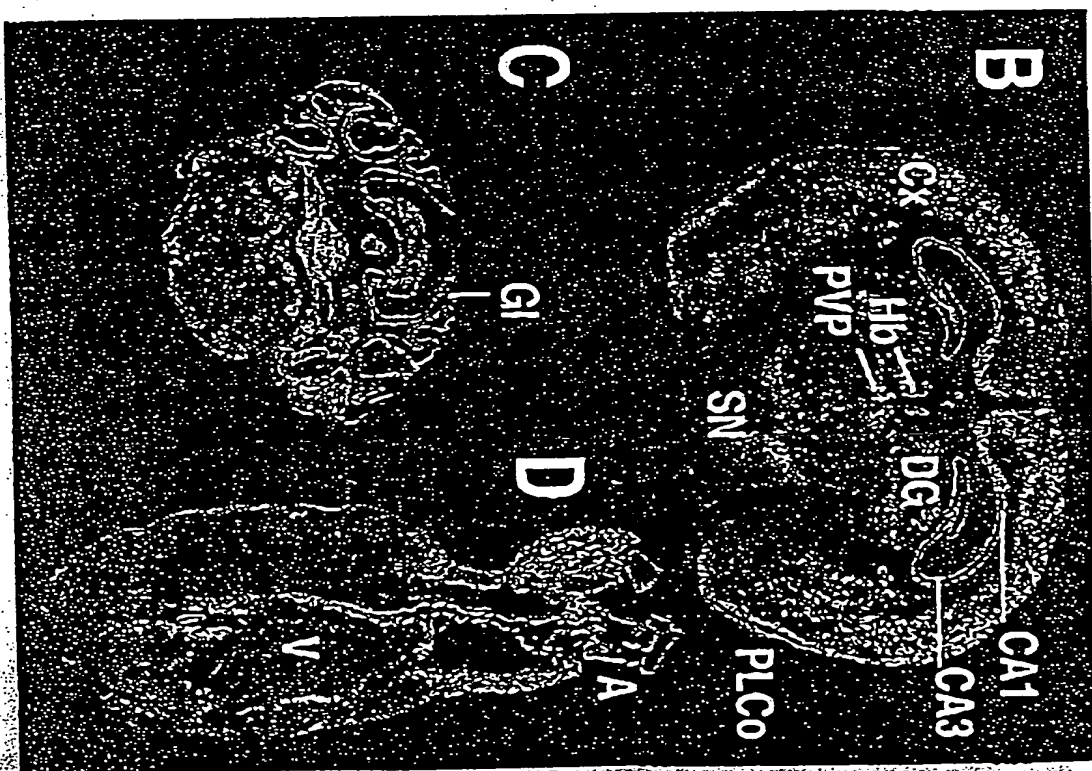
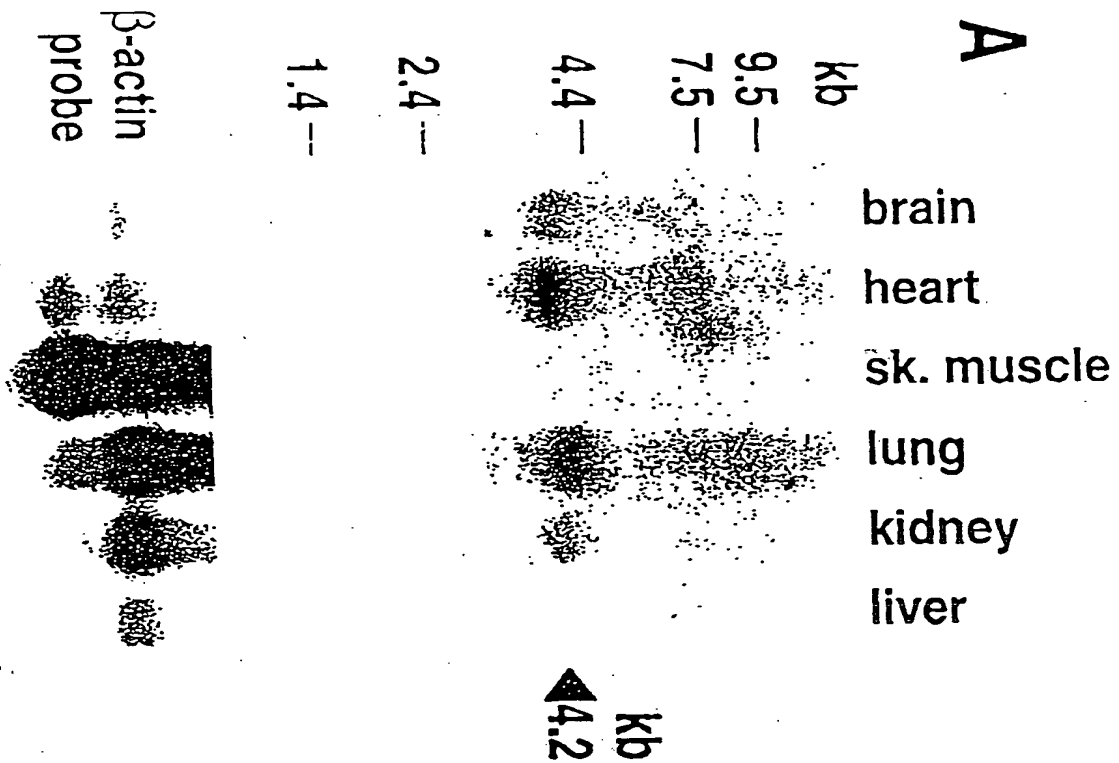


Fig. 12

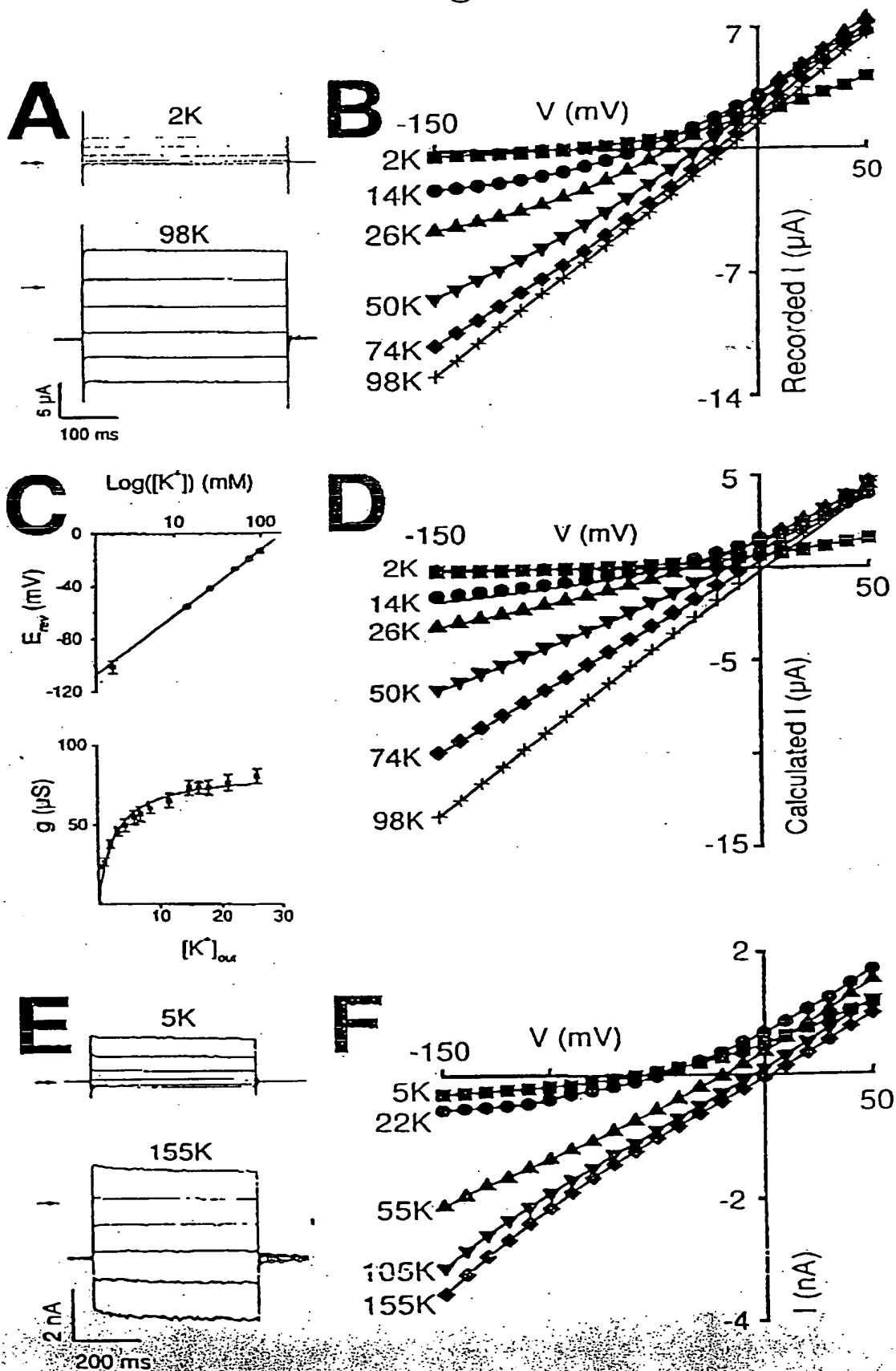


Fig. 13

